

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in this application.

Listing of claims:

Claims 1 – 9 (cancelled)

Claim 10 (currently amended): A device for compensating ~~determining~~ an ametropia of an optical system, comprising:

a light source emitting a beam of light;

a controllable optical element having a plurality of optical properties receiving a first portion of the beam and being automatically adjustable to permit modification of at least one of a plurality of optical properties; and

a measurement and control unit receiving at least a second portion of the beam and operatively connected to the controllable optical element and forming a closed-loop control circuit with the controllable optical element, the measurement and control system automatically adjusting the controllable optical element so as to compensate the ametropia of the optical system, wherein the controllable optical element is configured to permit manual modification of at least one of the plurality of optical properties.

Claim 11 (original): The device according to claim 10, wherein the optical system includes a human eye.

Claim 12 (original): The device according to claim 11, wherein the optical system also includes an artificial visual aid.

Claim 13 (original): The device according to claim 10, wherein the controllable optical element includes at least one of a controllable phoropter and an optometer with an astigmometer.

Claim 14 (original): The device according to claim 10, wherein the measurement and control unit includes at least one of an automatic refractometer and an aberrometer.

Claim 15 (original): The device according to claim 13, wherein the controllable phoropter includes a plurality of phase plates.

Claim 16 (currently amended): The device according to claim 10, further comprising a ~~treatment~~ laser having a ~~treatment~~ beam path and wherein the ~~treatment~~ beam path is reflected into a beam path of the device.

Claim 17 (currently amended): A method for compensating ~~determining~~ an ametropia of an optical system, the method comprising:

emitting light from a light source;

passing at least a first portion of the light through a controllable optical element, the controllable optical element being automatically adjustable to permit modification of at least one of a plurality of optical properties of the controllable optical element;

receiving at least a second portion of the light using a measurement and control unit, the measurement and control unit being operatively connected to the controllable optical element so as to form a closed-loop system;

compensating the ametropia by adjusting a the controllable optical element using a the measurement and control unit ~~so as to compensate the ametropia.~~

Claim 18 (cancelled)

Claim 19 (original): The method as recited in claim 17, further comprising:

further adjusting the controllable optical element manually so as to achieve a subjectively optimum compensation of the ametropia.

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Claim 20 (currently amended): The method as recited in claim 19 +8, wherein the optical system includes an eye of a patient and wherein the further adjusting is performed by the patient.

Claim 21 (new): The device as recited in claim 10, wherein the controllable optical element is configured to permit manual modification of at least one of the plurality of optical properties so as to achieve a subjectively optimum compensation of the ametropia.